Math 9 Pythagoras Theorem Assignment Lesson 4

Name _____

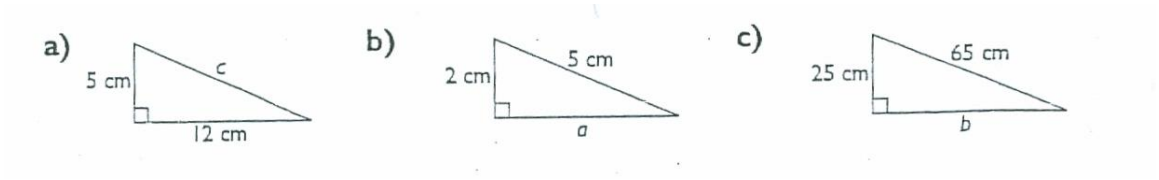
Mark ____ / 27

INSTRUCTIONS: Complete all work on loose leaf. Show your work for full value. Place a rectangle around your final answer.

1. Copy and complete the table for right triangles.

a	b	c	a^2	b^2	c^2
		17	64	225	
			81	144	225
		50	900	1600	
18				576	900

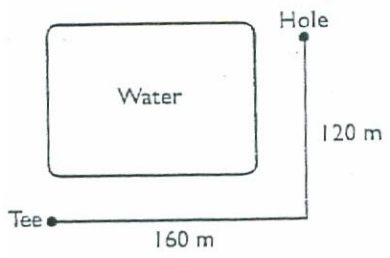
2. Calculate the unknown length of the side to the nearest tenth of a centimetre.



3. Find the value of "c" to one decimal place.

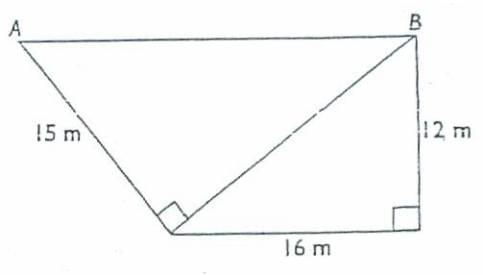
a) $c^2 = 8^2 + 15^2$ b) $c^2 = 5^2 + 5^2$ c) $c^2 = 7^2 + 13^2$ d) $c^2 = 9^2 + 2^2$

4. Amanda can normally it a golf ball 180 m from the tee (including roll). Should she aim for the flag on the hole or take the longer route around the water? Explain.



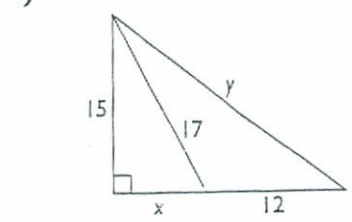
5. Which is the correct distance, to the nearest metre, from A to B.

a) 25 m
b) 43 m
c) 20 m
d) 32 m



6. Find the lengths of the unknown sides.

a)



b)